AMENDMENTS TO THE CLAIMS

Claims 1-30 are pending in the instant application. Claims 2-10, 12-21, and 29 have been amended. The Applicant requests reconsideration of the claims in view of the following amendments reflected in the listing of claims.

Listing of claims:

1. (Original) A method for controlling an antenna system, the method comprising:

dwelling on at least one of a plurality of antennas;

determining a gain for said dwelled-on at least one of a plurality of antennas;

determining at least one of a plurality of signal quality metrics for said dwelled-on at least one of a plurality of antennas; and

selecting for signal processing a portion of said dwelled-on at least one of a plurality of antennas based on said determined gain and said determined at least one of a plurality of signal quality metrics from said dwelled-on at least one of a plurality of antennas.

- 2. (Currently Amended) The method according to claim 1, further comprising selecting a starting antenna from said at least one of a plurality of antennas.
- 3. (Currently Amended) The method according to claim 2, further comprising selecting said starting antenna based on a predetermined criteria.
- 4. (Currently Amended) The method according to claim 2, further comprising selecting said starting antenna based on random selection.

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5. (Currently Amended) The method according to claim 2, further comprising selecting said starting antenna based on prior history said selection of said portion of dwelled-on at least one of a plurality of antennas.

- 6. (Currently Amended) The method according to claim 2, further comprising determining a starting gain for said starting antenna using an automatic gain control.
- 7. (Currently Amended) The method according to claim 1, further comprising selecting antenna dwelling order based on a predetermined criteria.
- 8. (Currently Amended) The method according to claim 1, further comprising determining said at least one of said determined gain for said dwelled-on at least one of a plurality of antennas based on said at least one of a plurality of signal quality metrics, on at least one of a plurality of power coupling parameters, and/or a portion of said determined gain for said dwelled-on at least one of a plurality of antennas.
- 9. (Currently Amended) The method according to claim 1, wherein said at least one of a plurality of signal quality metrics may [[be]] comprise at least one of the following: an estimated received power, a received power, a signal-to-noise ratio, a bit error rate, a packet error rate, a propagation channel characteristic, an/or and/or a channel interference.
- 10. (Currently Amended) The method according to claim 1, further comprising selecting said portion of said dwelled-on at least one of a plurality of antennas based on meeting a specified range of values for at least one of said plurality of signal quality metrics.
- 11. (Original) A machine-readable storage having stored thereon, a computer program having at least one code section for controlling an antenna system, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

dwelling on at least one of a plurality of antennas;

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determining a gain for said dwelled-on at least one of a plurality of antennas;

determining at least one of a plurality of signal quality metrics for said dwelled-on at least one of a plurality of antennas; and

selecting for signal processing a portion of said dwelled-on at least one of a plurality of antennas based on said determined gain and said determined at least one of a plurality of powers from said dwelled-on at least one of a plurality of antennas.

- 12. (Currently Amended) The machine-readable storage according to claim 11, further comprising code for selecting a starting antenna from said at least one of a plurality of antennas.
- 13. (Currently Amended) The machine-readable storage according to claim 12, further comprising code for selecting said starting antenna based on a predetermined criteria.
- 14. (Currently Amended) The machine-readable storage according to claim 12, further comprising code for selecting said starting antenna based on random selection.
- 15. (Currently Amended) The machine-readable storage according to claim 12, further comprising code for selecting said starting antenna based on prior history said selection of said portion of dwelled-on at least one of a plurality of antennas.
- 16. (Currently Amended) The machine-readable storage according to claim 12, further comprising code for determining a starting gain for said starting antenna using an automatic gain control.
- 17. (Currently Amended) The machine-readable storage according to claim 11, further comprising code for selecting antenna dwelling order based on a predetermined criteria.

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18. (Currently Amended) The machine-readable storage according to claim 11, further comprising code for determining said at least one of said determined gain for said dwelled-on at least one of a plurality of antennas based on said at least one of a plurality of signal quality metrics, on at least one of a plurality of power coupling parameters, and/or a portion of said determined gain for said dwelled-on at least one of a plurality of antennas.

- 19. (Currently Amended) The machine-readable storage according to claim 11, wherein said at least one of a plurality of signal quality metrics may [[be]] comprise at least one of the following: an estimated received power, a received power, a signal-to-noise ratio, a bit error rate, a packet error rate, a propagation channel characteristic, an/or and/or a channel interference.
- 20. (Currently Amended) The machine-readable storage according to claim 11, further comprising code for selecting said portion of said dwelled-on at least one of a plurality of antennas based on meeting a specified range of values for at least one of said plurality of signal quality metrics.
- 21. (Currently Amended) A system for controlling an antenna system, the system comprising:

a processor that dwells on at least one of a plurality of antennas;

said processor determines a gain of said [[of]] dwelled-on at least one of a plurality of antennas;

said processor determines at least one of a plurality of signal quality metrics for said dwelled-on at least one of a plurality of antennas; and

said processor selects for signal processing, a portion of said dwelled-on at least one of a plurality of antennas based on said determined gain and said determined at least one of a plurality of powers from said dwelled-on at least one of a plurality of antennas.

22. (Original) The system according to claim 21, wherein said processor selects a starting antenna from said at least one of a plurality of antennas.

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- 23. (Original) The system according to claim 22, wherein said processor selects said starting antenna based on a predetermined criteria.
- 24. (Original) The system according to claim 22, wherein said processor selects said starting antenna based on random selection.
- 25. (Original) The system according to claim 22, wherein said processor selects said starting antenna based on prior history of said selection of said portion of dwelled-on at least one of a plurality of antennas.
- 26. (Original) The system according to claim 22, wherein said processor determines a starting gain for said starting antenna using an automatic gain control.
- 27. (Original) The system according to claim 21, wherein said processor selects antenna dwelling order based on a predetermined criteria.
- 28. (Original) The system according to claim 21, wherein said processor determines said at least one of said determined gain for said dwelled-on at least one of a plurality of antennas based on said at least one of a plurality of signal quality metrics, on at least one of a plurality of power coupling parameters, and/or a portion of said determined gain for said dwelled-on at least one of a plurality of antennas.
- 29. (Currently Amended) The system according to claim 21, wherein said at least one of a plurality of signal quality metrics may [[be]] comprise at least one of the following: an estimated received power, a received power, a signal-to-noise ratio, a bit error rate, a packet error rate, a propagation channel characteristic, an/or and/or a channel interference.
- 30. (Original) The system according to claim 21, wherein said processor selects said portion of said dwelled-on at least one of a plurality of antennas based on meeting a specified range of values for at least one of said plurality of signal quality metrics.